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| Group | Number of Mice | Dosage | Survivors (days) | Increased Life Span (ILS) |
|--------------|-----------------------|-----------------|-----------------------------|--------------------------------------|
| I | 10 | 0.002 ml fetuin | 1 (31) | 29% |
| II | 10 | 0.02 ml fetuin | 1 (29) | 17.2 % |
| III | 10 | 0.2 ml fetuin | 8 (58) | 141 % |
| IV | 10 | 0.5 ml saline | 0 (24) | --- |

Fig. 1

| Type of Fetus | Amount Required to Reach LD₅₀ |
|-------------------------|---|
| Fetus + Zn | 130 μ M |
| Supercharged Zinc Fetus | 14.3 μ M |

Fig. 2

| Type of Fetus | Amount Required to Reach LD₅₀ |
|-------------------------|---|
| Fetus + Zn | 60 μ M |
| Supercharged Zinc Fetus | 19.6 μ M |

Fig. 3

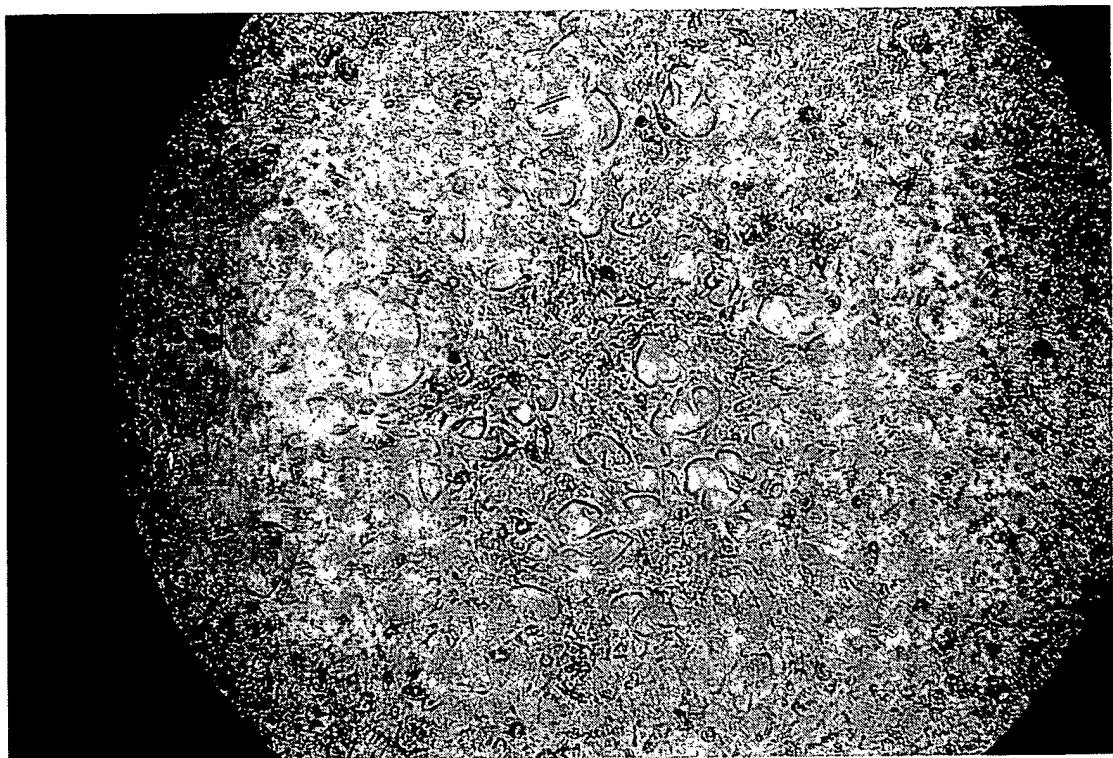


FIG. 4

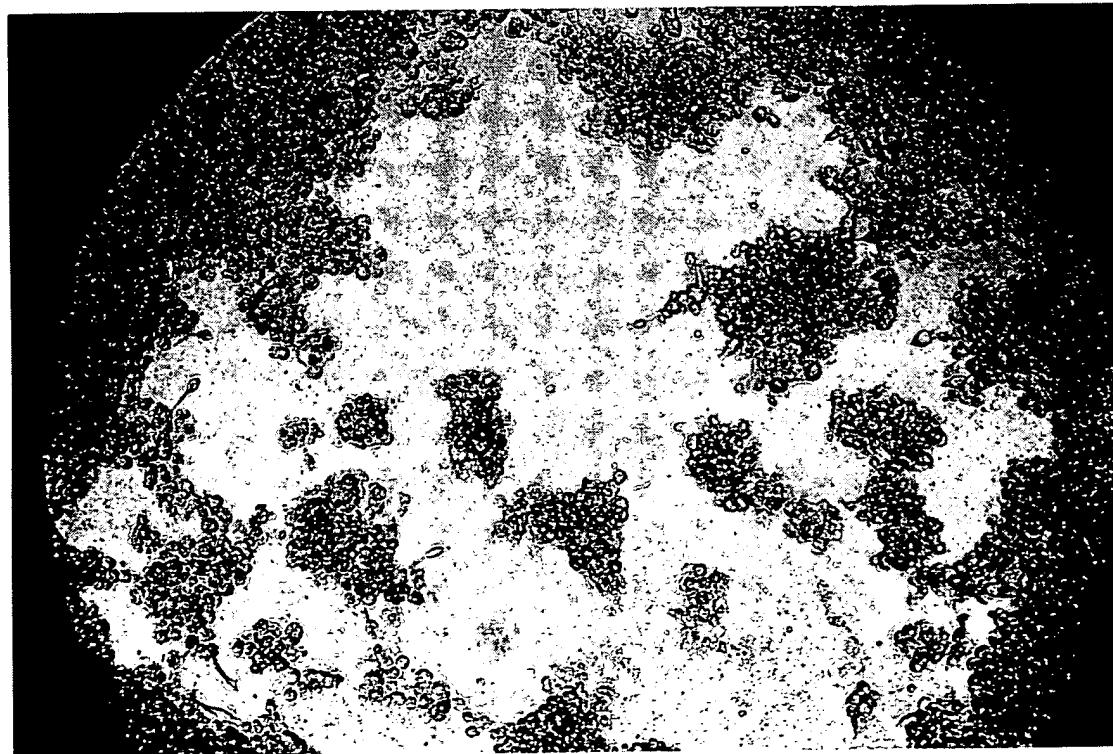


FIG. 5

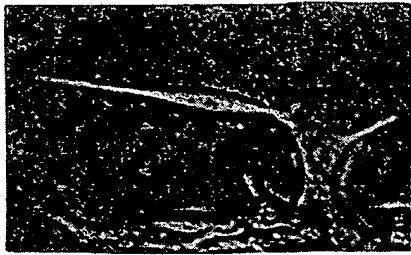


FIG. 6

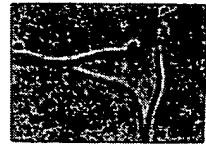


FIG. 9

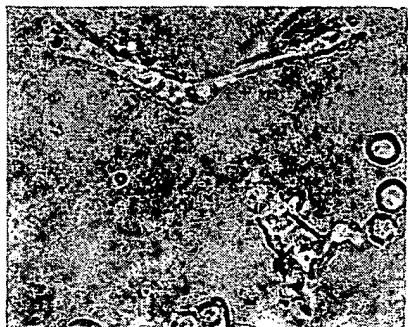


FIG. 7

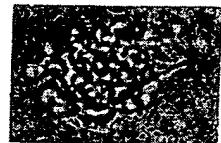


FIG. 10

FIG. 8

| <u>Experiment</u> | <u>Sample</u> | <u>Apoptosis (%)</u> |
|-------------------|--------------------------------------|----------------------|
| 1 | Filtrate (10 μ l) | 92% |
| | Filtrate (10 μ l) + proteinase K | 50% |
| 2 | Filtrate (5 μ l) | 35% |
| | Filtrate (5 μ l) + proteinase K | 0% |
| 3 | Filtrate (10 μ l) | 75% |
| | Filtrate (10 μ l) + proteinase K | 0% |

FIG. 13

| <u>Fetuin</u> | <u>LD₅₀</u> |
|--|------------------------------------|
| Zinc Charged Fetuin (full length) | LD ₅₀ = 3-10 μ M |
| Fetuin Fragment (amino acid no. 300-309) | LD ₅₀ = 0.3-0.4 μ M |
| Fetuin Fragment (amino acid no. 300-307) | LD ₅₀ >> 1 mM |
| Fetuin Fragment (amino acid no. 310-317) | LD ₅₀ >> 1 mM |

FIG. 11

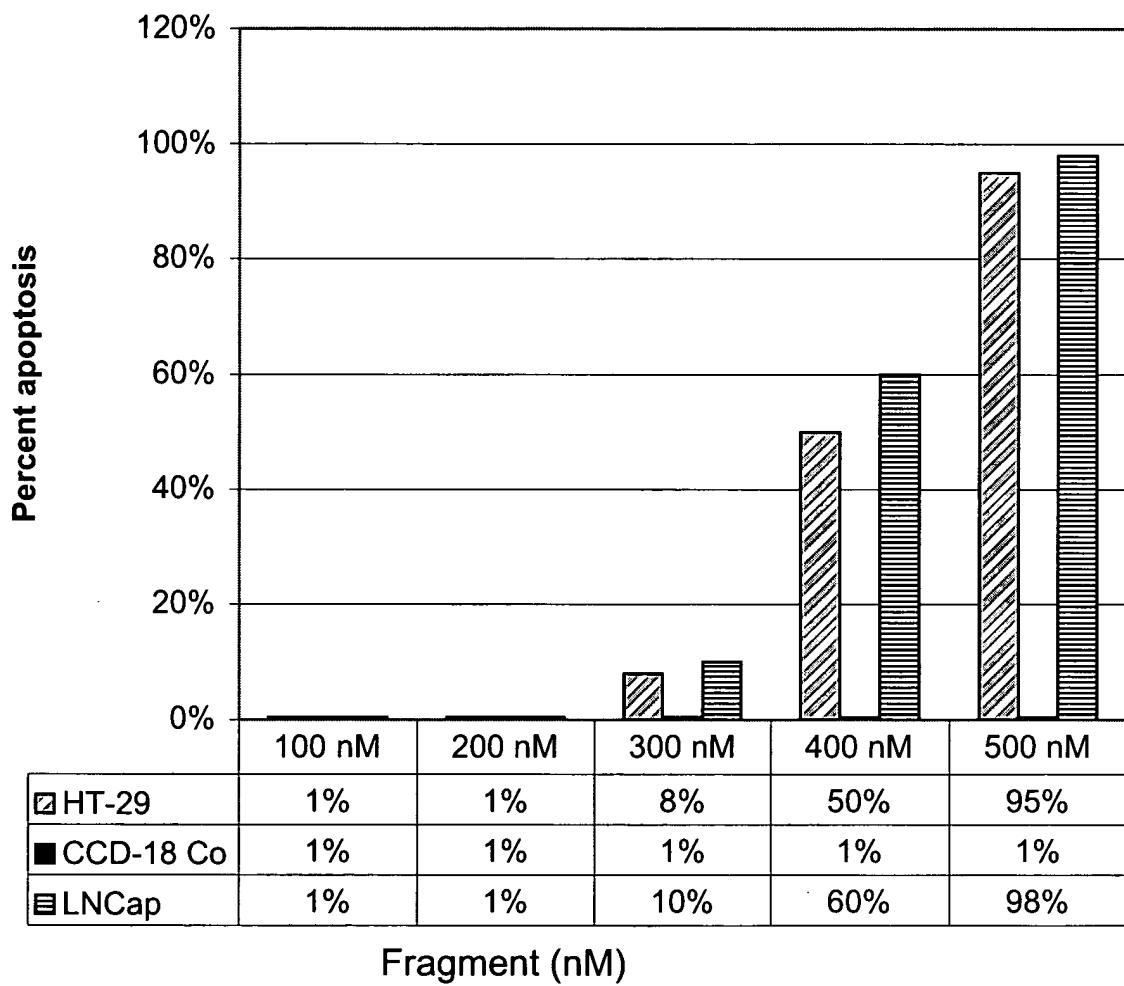
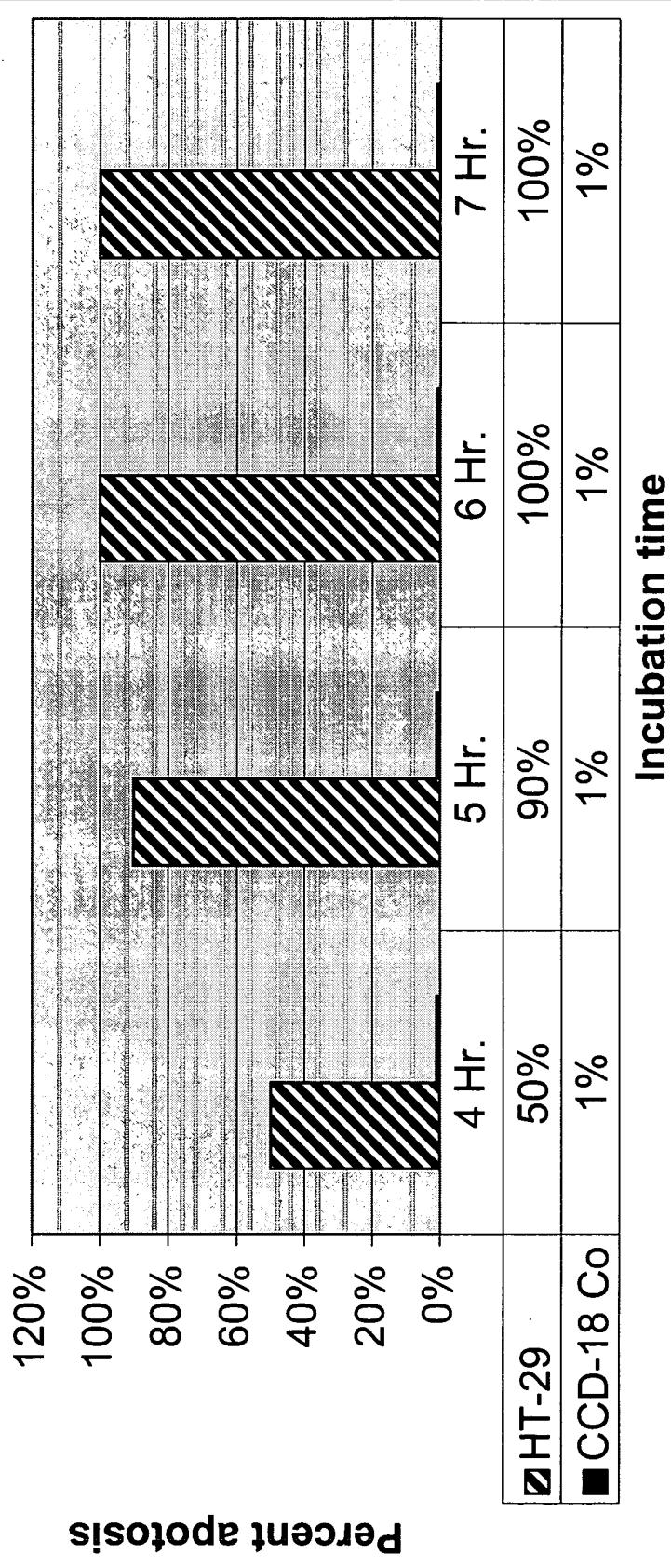


FIG. 12





(1) (2) (3)

(1) Alpha 1 acid-glycoprotein (Sigma)

(2) Sample

(3) Alpha 2 HS-glycoprotein (Sigma)

Figure 14



Figure 15

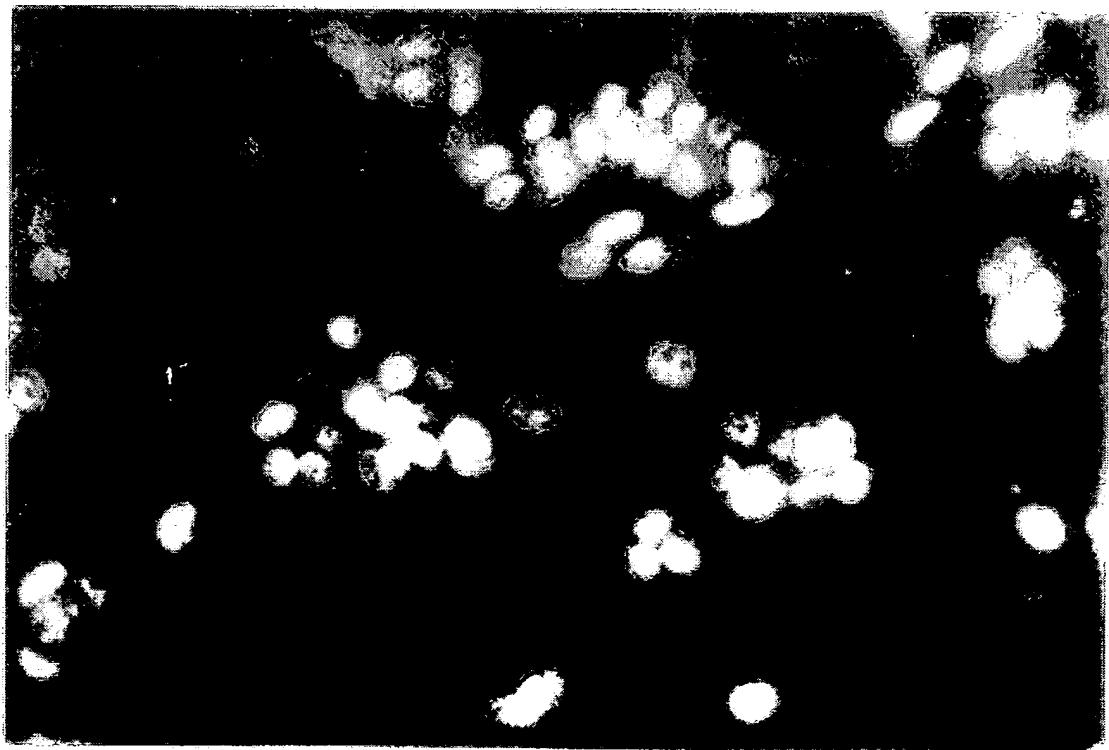


Figure 16

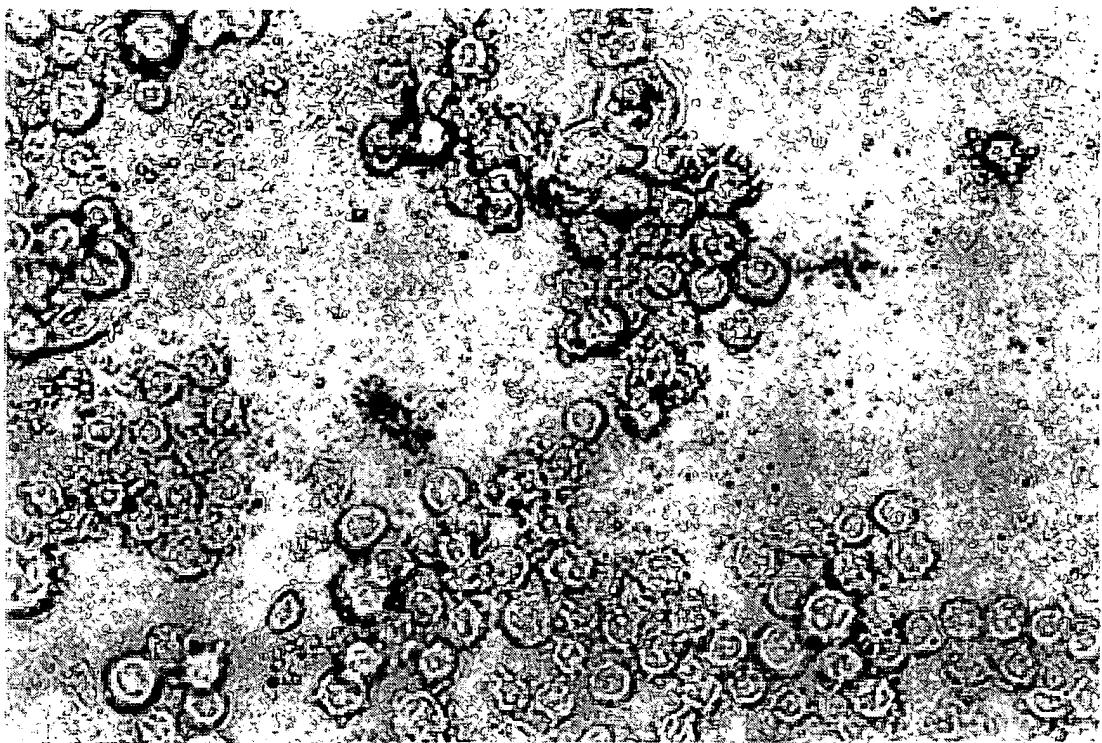


Figure 17



Figure 18

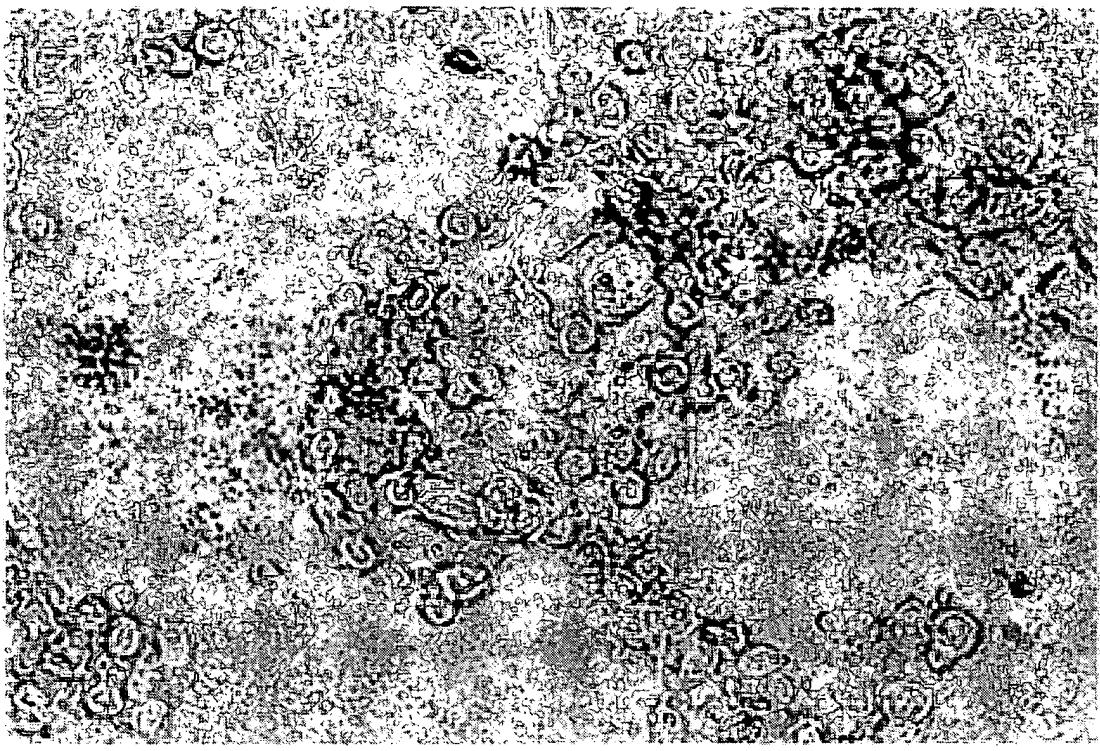


Figure 19

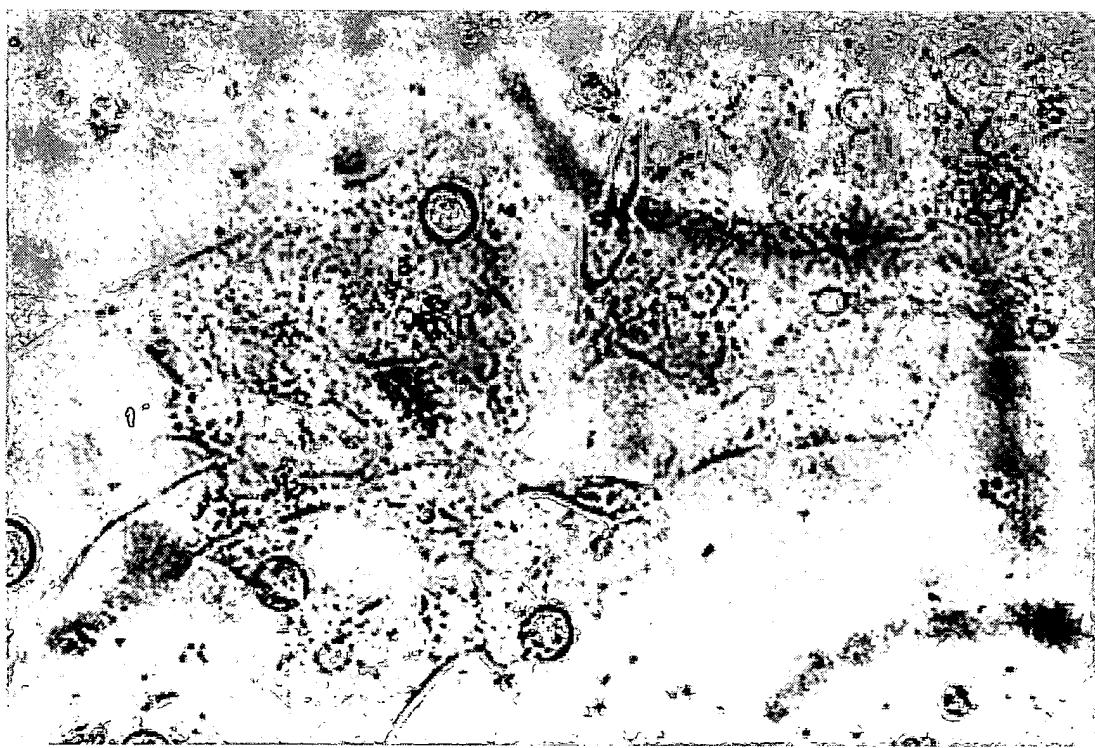


Figure 20

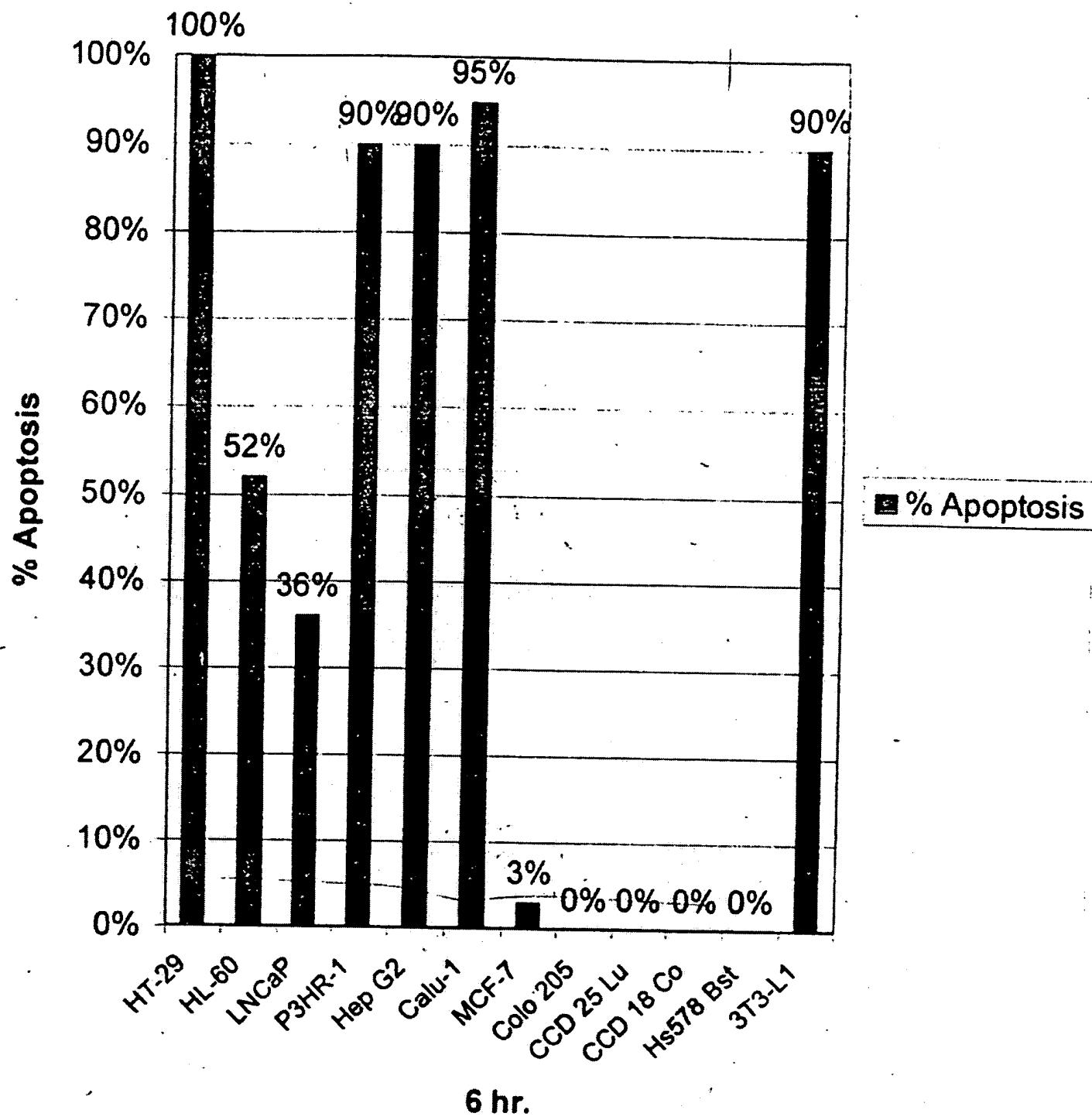


Figure 21

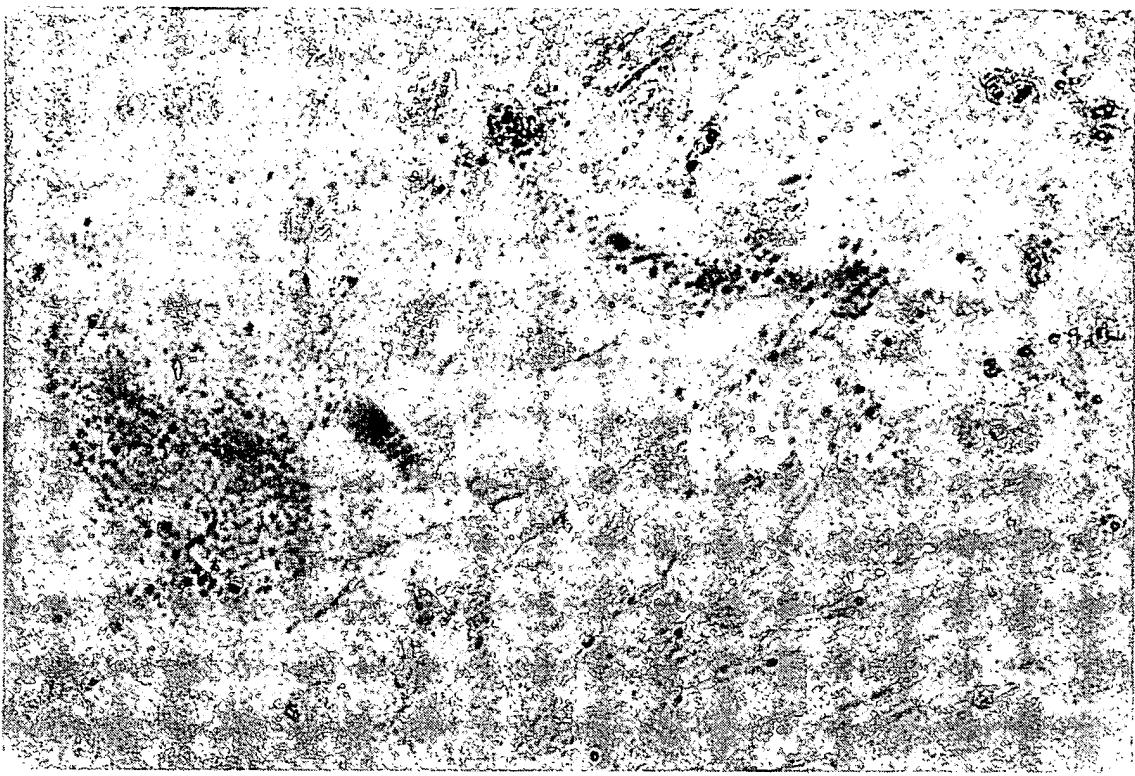


Fig. 22



Fig. 23

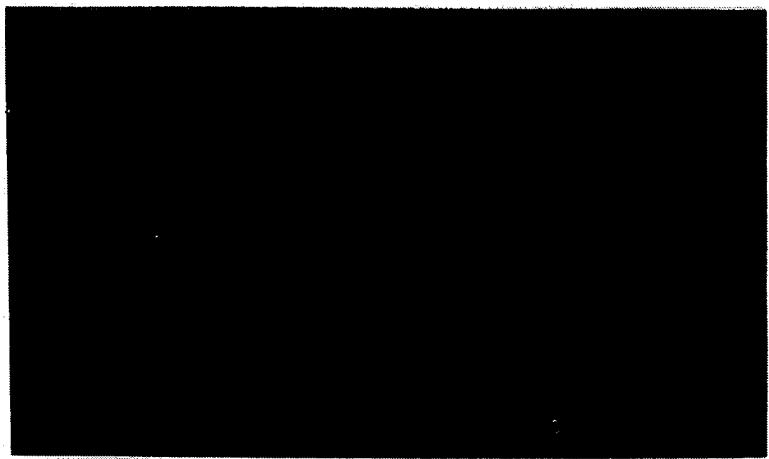


Figure 24



Figure 25

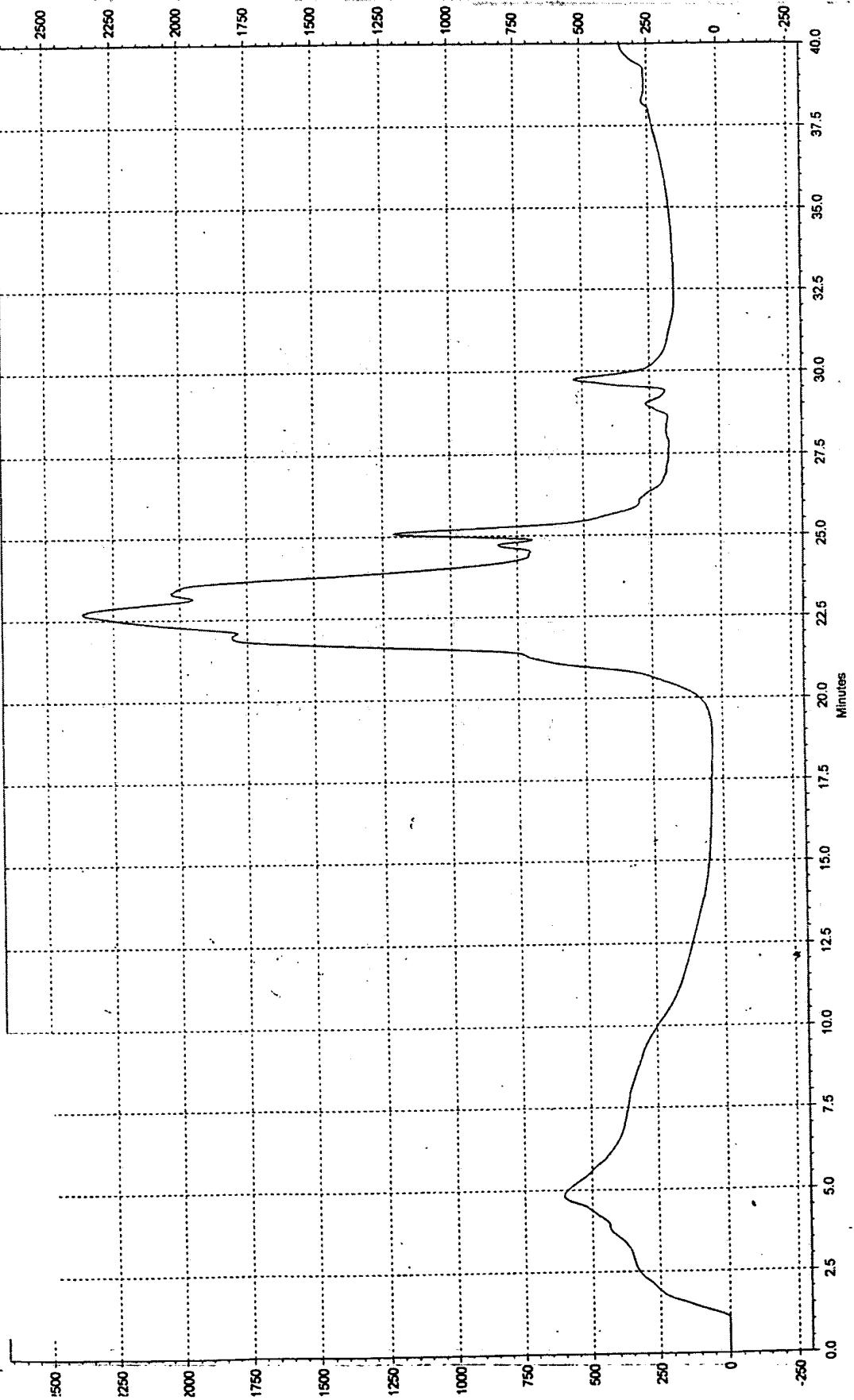
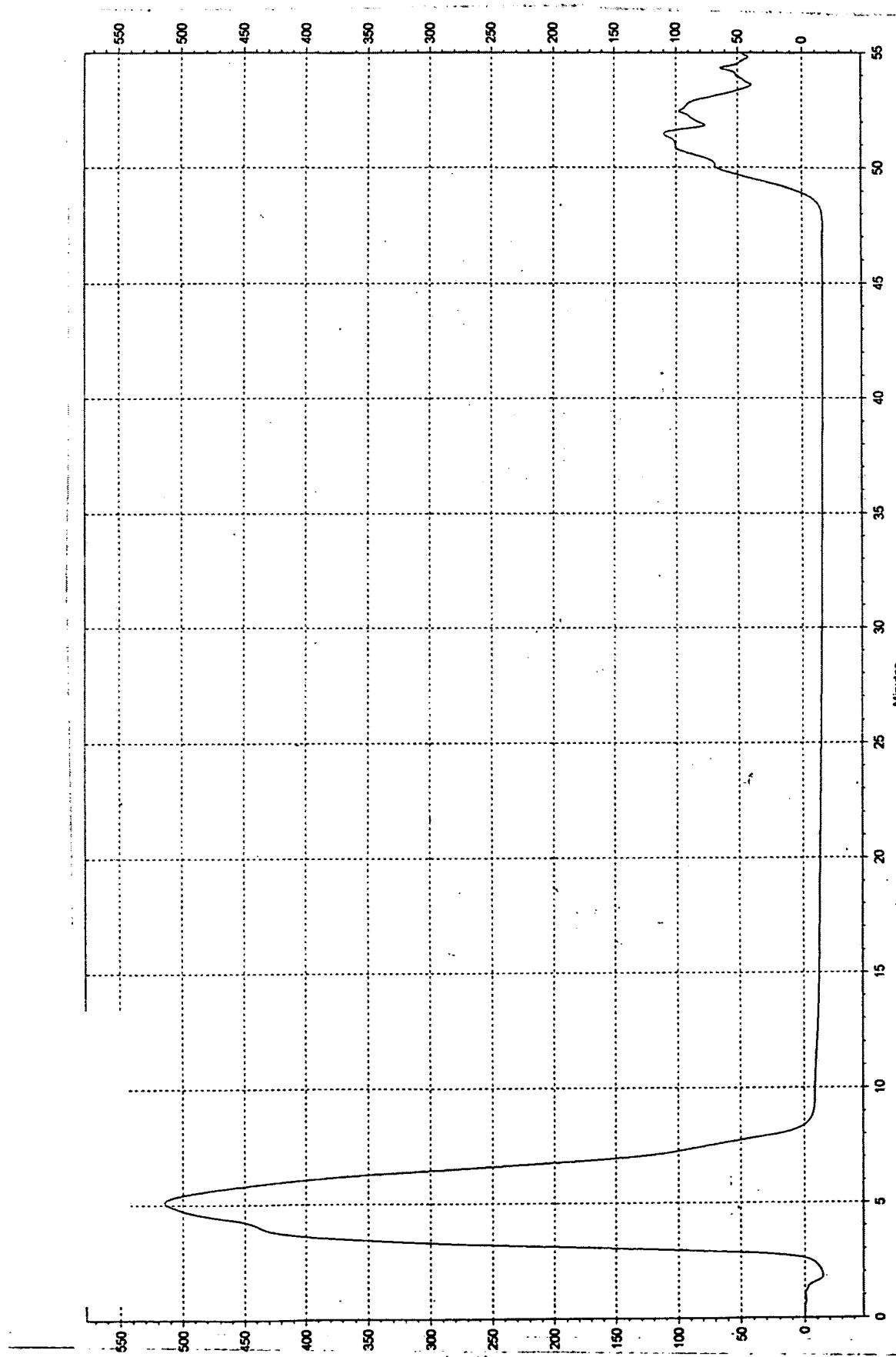


Figure 26

Figure 27



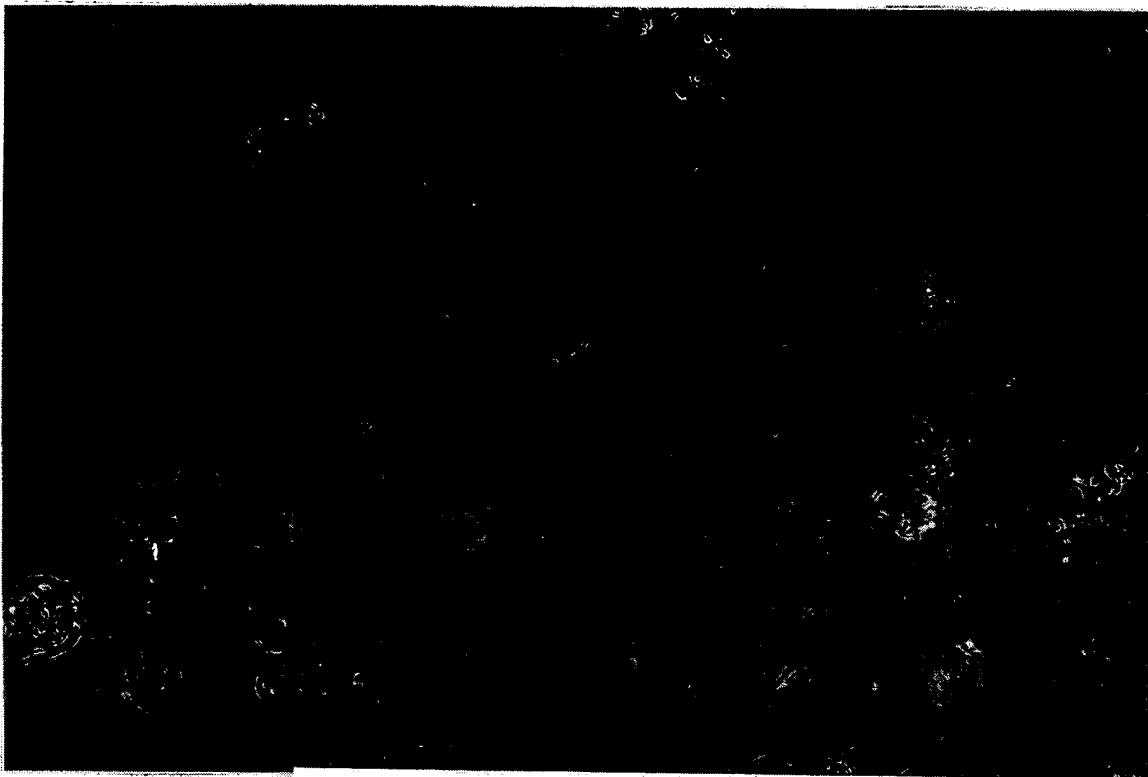


Figure 28

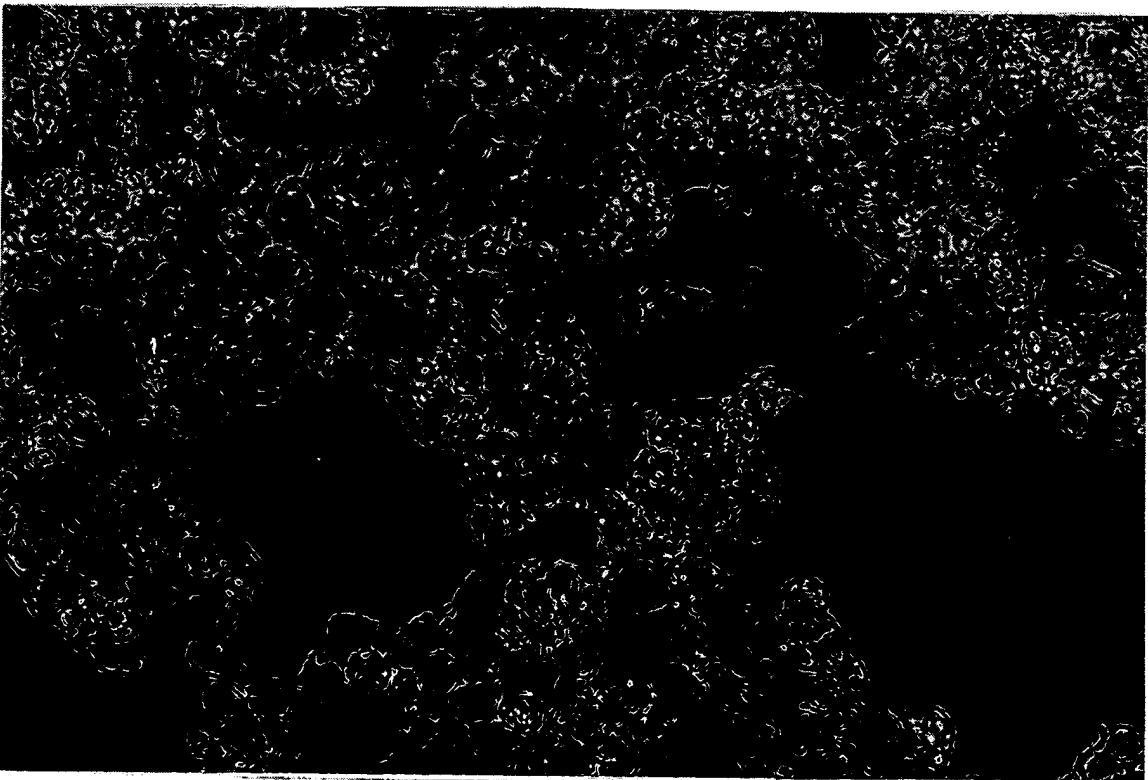


Figure 29



Figure 30

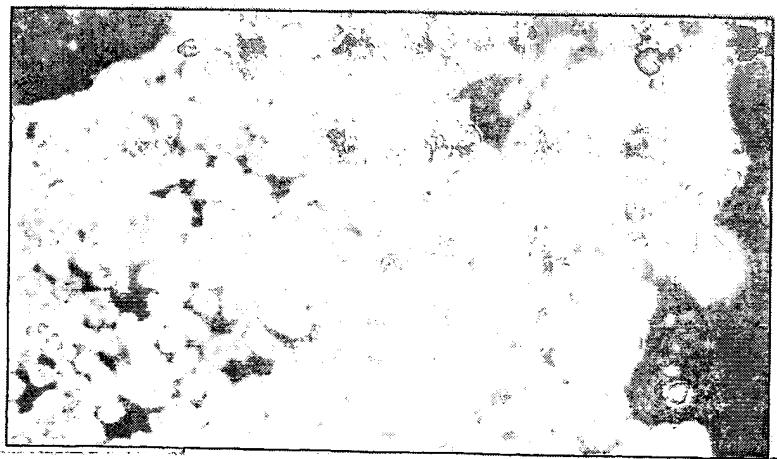


Figure 31

Figure 32

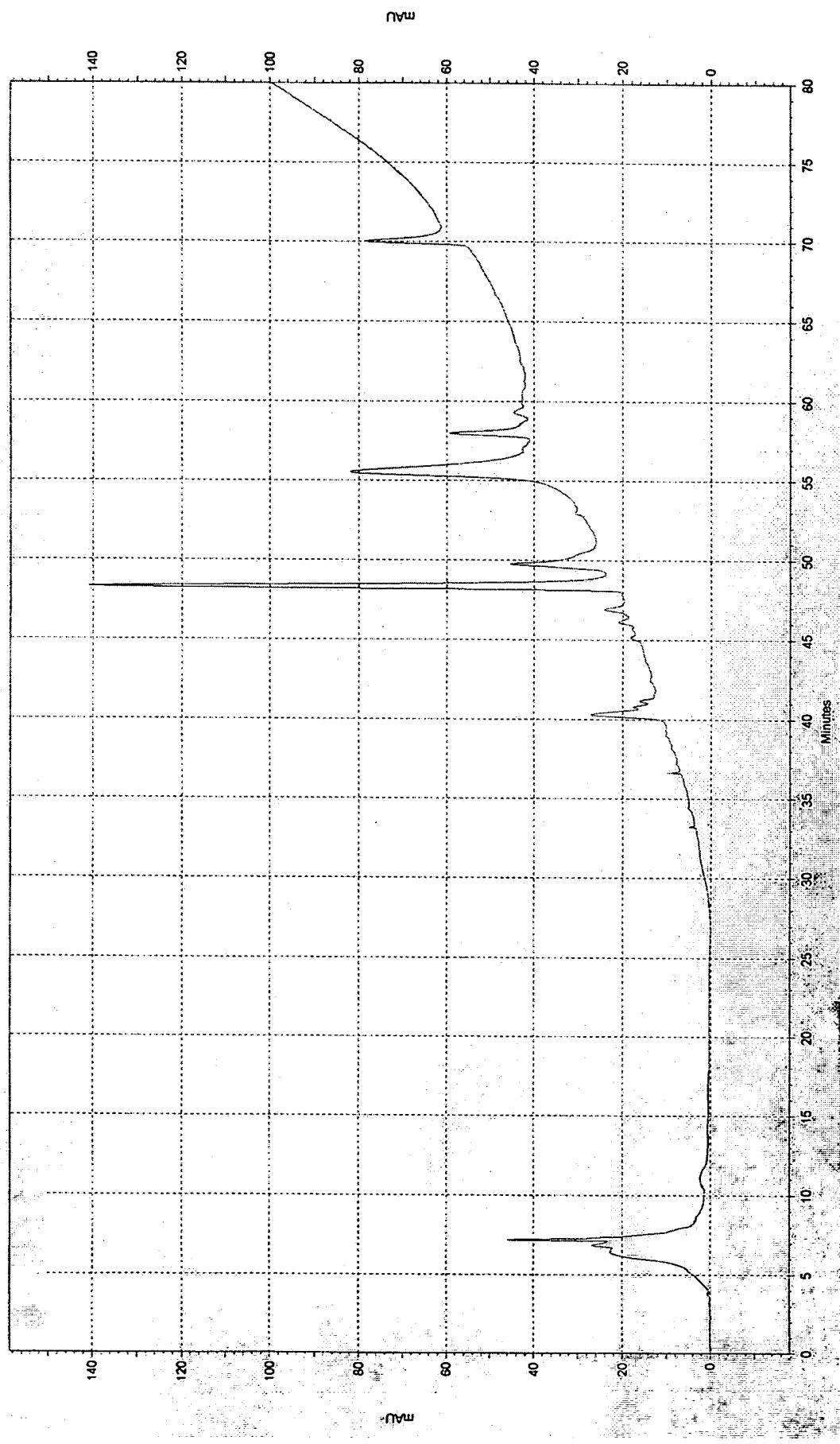


Figure 33

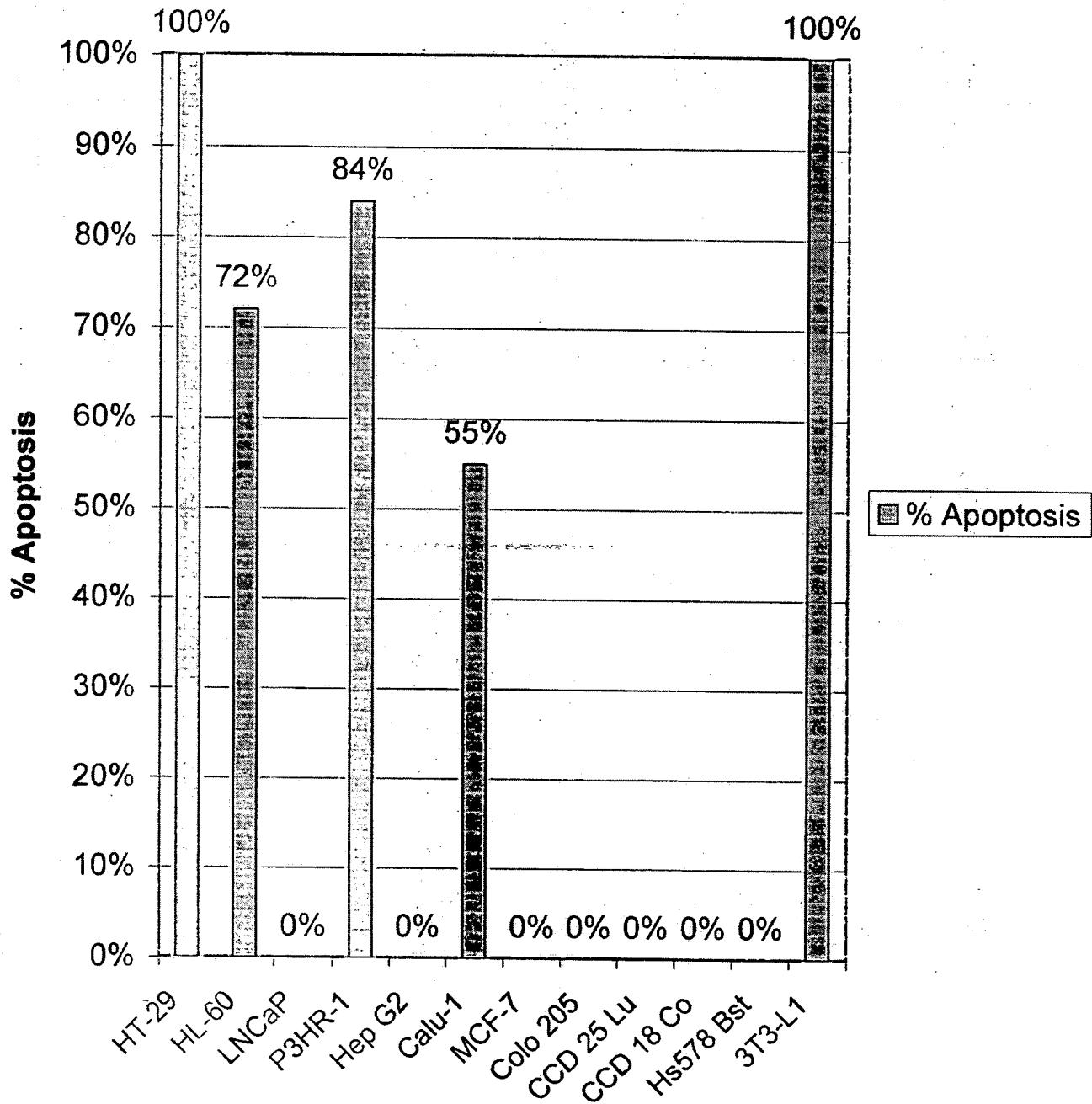
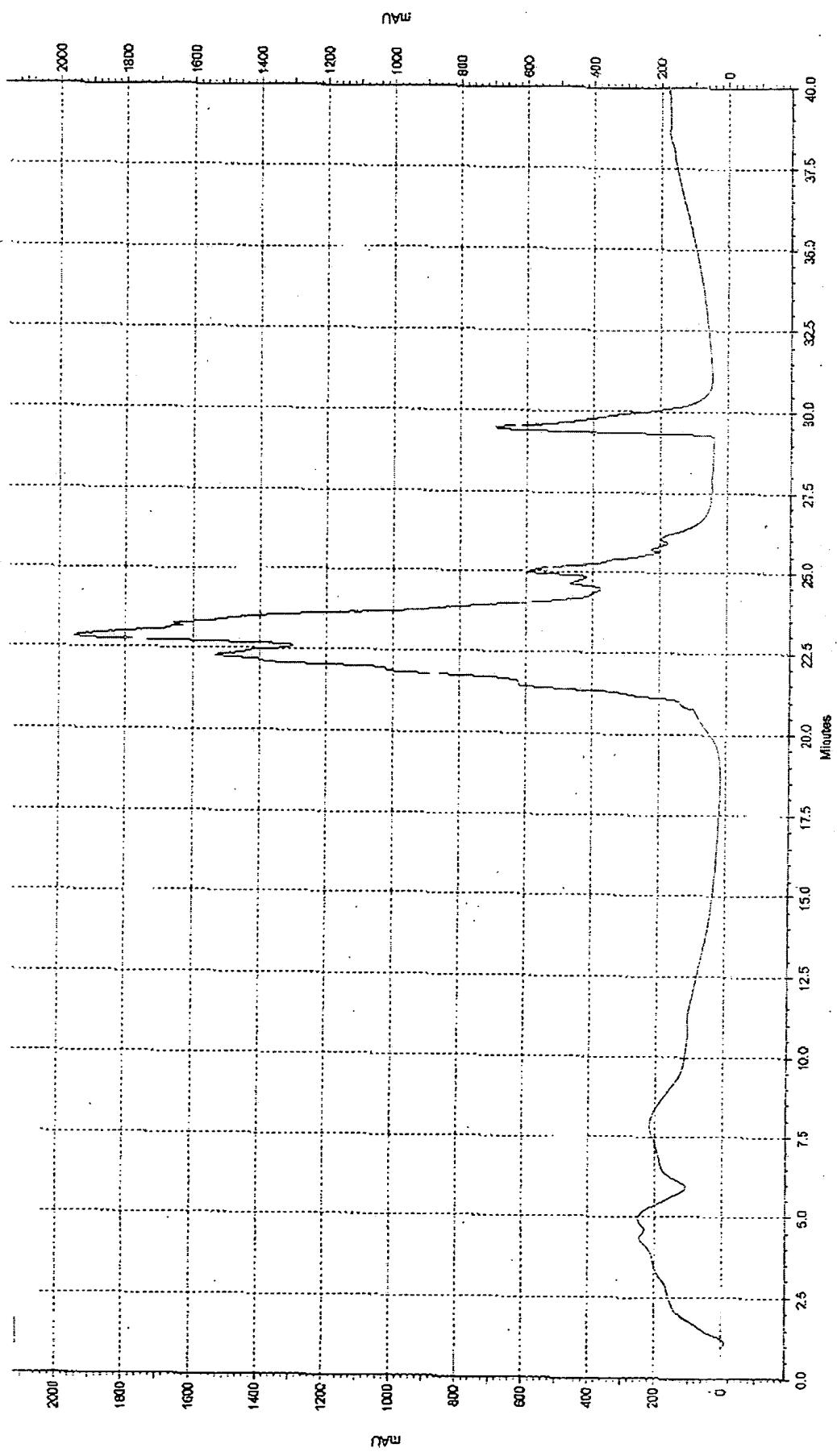


Figure 34



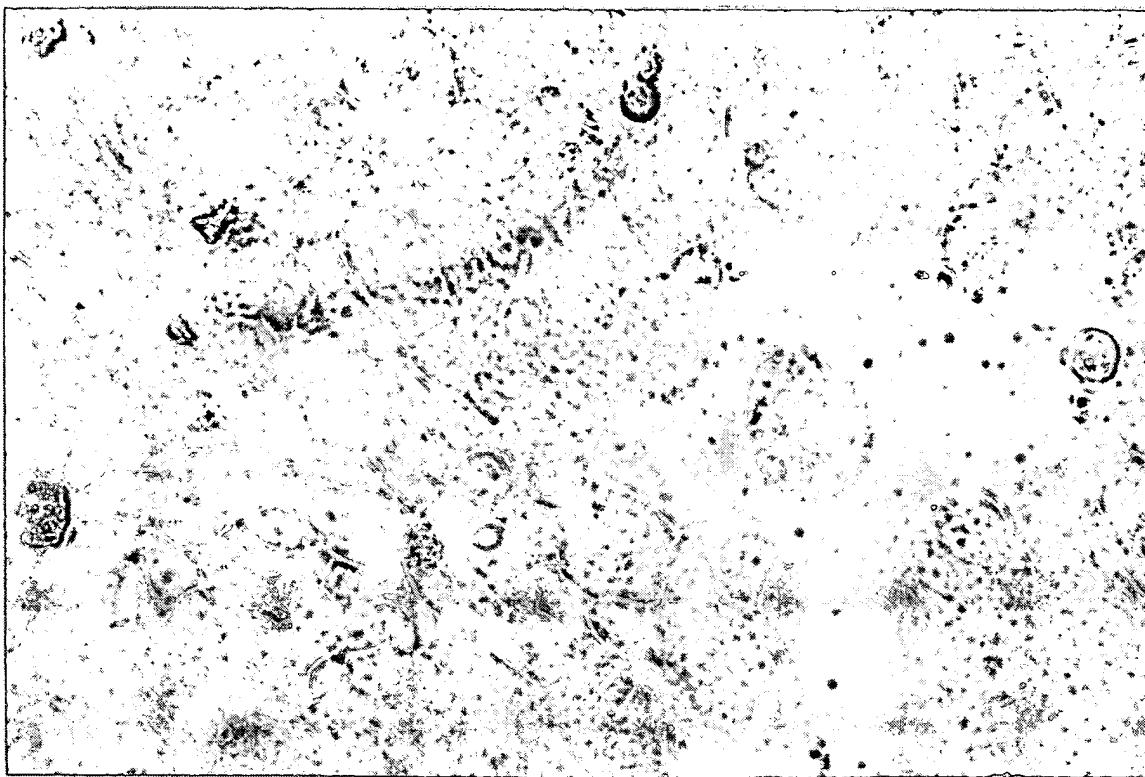


Figure 35

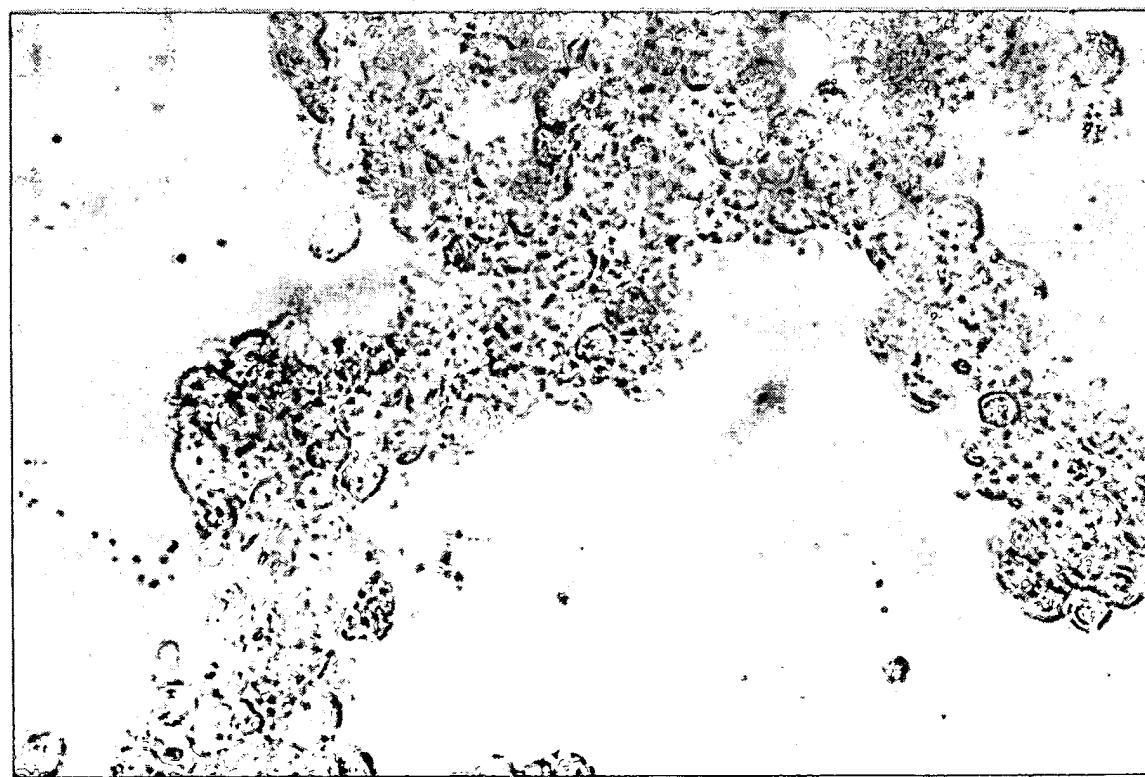


Figure 36